

LHA

Engine Room

Representative Hot & Cold Checks/Tests

DAMAGE CONTROL	IA	LOA	Fwd Plant	Aft Plant
Halon MRC Q-1R demonstration	X	X		
Halon MRC 18M-3R demonstration	X	X		
Halon bottle cali stickers, pressure, piping/nozzle integrity	X	X		
Halon actuation station integrity (local and remotes)	X	X		
AFFF bilge sprinkling piping/nozzle integrity	X	X		
AFFF hosereel/nozzle operation	X	X		
AFFF hosereel activation stations	X	X		
AFFF space cutout valves locked open	X	X		
Ellison door closure/Escape trunk lighting and integrity	X	X		

MAIN ENGINES	IA	LOA	Nr 1	Nr 2
Three point check	X	X		
Low lube oil pressure alarm	X	X		
Lube oil pump sequencing	X	X		
Unloader operation	X	X		
Operation of turning gear and shaft locking device	X	X		
Guarding valve remote operation	X	X		
Cycle ahead and astern throttle through full travel	X	X		
Wrong direction alarm	X	X		
EOT and ROT transmitter operation		X		
Operation of gland exhaust fan	X	X		
Sump level indicator	X	X		
Automatic lube oil temperature controls	X			
Gland seal regulator in parameter	X			
Vent fog precipitator operation	X	X		

MAIN ENGINE LUBE OIL STRAINERS	IA	LOA	Nr 1	Nr 2
SICLOS (verify strainer basket integrity; vent valve, drain valve, equalizing valve operation; plug cock leakage; shifting interlock device; differential pressure)	X	X		
Spray shield integrity	X	X		
Test high differential pressure alarm	X	X		

LUBE OIL PURIFIERS	IA	LOA	Nr 1	Nr 2
Operation within parameters	X	X		
Efficiency test	X	X		

MAIN CONDENSATE PUMPS	IA	LOA	Nr 1A	Nr 1B	Nr 2A	Nr 2B
Run direction of rotation	X	X				
Start/stop controller function	X	X				

FRESH WATER DRAIN COLLECTION TANKS	IA	LOA	Fwd Plant	Aft Plant
Pump operation	X	X		
Pump sequencing	X	X		
Tank level controls when on vacuum drag	X			

Legend: X - Demonstrate

O - Observe

 - Check is not required or does not apply.

MAIN CIRCULATING WATER SYSTEMS	IA	LOA	Nr 1 MnCirc	Nr 2 MnCirc
Sea valve automatic/remote operation	X	X		
Pump run direction of rotation correct	X	X		
Emergency bilge suction valve operation		X		
Local start/stop high/low speed controller function	X	X		
Remote start/stop high/low speed controller function	X	X		

SHIP'S SERVICE TURBINE GENERATORS	IA	LOA	Nr 1	Nr 2	Nr 3	Nr 4
Manual Trip	X	X				
Low lube oil Trip	X	X				
Back-pressure Trip	X	X				
Low lube oil alarm	X	X				
Operation of elect lube oil pump and manual lube oil pump	X	X				
Lube oil strainer spray shield integrity, plug cock leakage, differential pressure, interlocks, SICLOS	X	X				
Sample lube oil, sump level, dipstick	X	X				
Rotor position, bearing temps, oil flow through SFIs	X	X				
Vent fog precipitator operation	X	X				
Alarm panel	X	X				
Gland seal regulator operation	X					
Operation of Aux Circ Pump and Aux Cond Pump	X	X				
Overspeed Trip (manual trip must be demonstrated first)	X					
Reverse power relay operation	X					
Governor high and low speed stops at SWBD (generator not overspeed before reaching the high speed stop)	X					
Airbox telltale drains, temp alarms	X	X				

ELECTRIC FIRE PUMPS	IA	LOA	Nr 3	Nr 5
Local & remote start/stop	X	X		
Direction of rotation	X	X		
Suction/discharge valve local/remote operation	X	X		
Check-valve leakage (no backwards pump rotation)	X	X		

STEAM FIRE PUMPS	IA	LOA	Nr 3	Nr 4	Nr 5	Nr 6
Operation within parameters	X					
SLG freedom of movement	X	X				
Position of overload nozzle	X	X				
Turn pump by hand		X				
Inspect lube oil sump level sample and inspect lube oil	X	X				
SLG at set point	X					
Constant speed governor proper operation	X					
Manual/emergency trip valve operation	X					
Low lube oil pressure trip restart feature	X					
Pump running in parameters	X					
Check-valve leakage (no backwards pump rotation)	X	X				

ABTs/MBTs	IA	LOA	Fwd Plant	Aft Plant
ABT operation in both automatic and manual modes	X	X		
Shift MBT, check manual interlock (both sources available)	X	X		

Legend: X - Demonstrate


O - Observe

 - Check is not required or does not apply.

MAIN SWITCHBOARDS & DISTRIBUTION PANELS			IA	LOA	Nr 1S SWBD	Nr 2S SWBD	Nr 3S SWBD	Nr 4S SWBD		
Ground check			X	X						
Rubber boots, face shield, shorting probe			X	X						
Indicator lights			X	X						
SALINITY ALARM PANELS			IA	LOA	Fwd Plant	Aft Plant				
Salinity panel meter calibration and alarm set point test			X	X						
Alarm panel circuit failure test			X	X						
MAIN DRAINAGE SYSTEMS			IA	LOA	Fwd Plant	Aft Plant				
Eductor capable of drawing vacuum IAW EOSS			X	X						
Bilge suction strainers			X	X						
Cycle eductor local/remote operators			X	X						
Cycle main drains at local and remote stations (all)			X	X						
AIR PILOT/DIAPHRAGM OPERATED VALVES			IA	LOA	Fwd Plant	Aft Plant				
Manually stroke, check for binding				X						
VENTILATION			IA	LOA	Fwd Plant	Aft Plant				
Start/stop and high/low from local station			X	X						
Start/stop and high/low from remote station			X	X						
Indicator lights			X	X						
AMCW PUMPS/SYSTEMS			IA	LOA	Fwd Plant	Aft Plant				
Local & remote start/stop			X	X						
Direction of rotation			X	X						
Suction/discharge valve local/remote operation			X	X						
Check-valve leakage (no backwards pump rotation)			X	X						
Reducer operation			X	X						
MAIN SHAFTING			IA	LOA	PORT			STBD		
Stern tube flushing and cooling water supply, filtering system, and leak by			X	X						
Inflatable seal air/CO2 supply			X	X						
Inflatable boot operation				X						
Test shaft seal high/low pressure alarm			X	X						
Shaft coupling guards, slip ring and brush rigging condition, bulkhead seals			X	X						
Line shaft bearing sump level, dip-stick, oiler ring inspection, security seals, labels (IC, BC, date), lube oil sample			X	X	2A	2B	2C	1A	1B	1C
					2D	2E	2F	1D	1E	
					2G	2H	2I			

Legend: X - Demonstrate

O - Observe

 - Check is not required or does not apply.

LHA

Fire Room

Representative Hot & Cold Checks/Tests

DAMAGE CONTROL	IA	LOA	Fwd Plant	Aft Plant
Halon MRC Q-1R demonstration	X	X		
Halon MRC 18M-3R demonstration	X	X		
Halon bottle cali stickers, pressure, piping/nozzle integrity	X	X		
Halon actuation station integrity (local and remotes)	X	X		
AFFF bilge sprinkling piping/nozzle integrity	X	X		
AFFF hosereel/nozzle operation	X	X		
AFFF hosereel activation stations	X	X		
AFFF space cutout valves locked open	X	X		
Ellison door closure/Escape trunk lighting and integrity	X	X		

BOILERS	IA	LOA	Nr 1	Nr 2
Quick closing valves remote operation/leakage	idle	X		
Accumulator isolation valve operation/leakage	idle	X		
Burner root valve/SSD/ball check leakage	idle	X		
Fuel oil control valve/micrometer valve proper minimum fuel oil pressure	idle	X		
Three-way valve operation and proper marking	X	X		
Air register freedom of movement	idle	X		
Steam smothering system alignment	X	X		
Air casing lighting	X	X		
Steam atomization temperature	X			
Periscope lighting and alignment	X	X		
Sufficient number of burner barrels and sprayer plates, correct go-no-go gages, hydro dates, instructions available	X	X		
Sample cooler preservation, operability, installation	X	X		
Soot blower element rotation/freedom of operation	X	X		
Main/Aux steam stop cycle locally/remotely	idle	X		
Safety valve yoke clearance, lifting fork movement, sequencing (LOA), locks & seals, escape piping temps/drains	X	X		
Pri/sec RWLI tracking/ high & low water alarms	X	X		
Boiler gage glass isolation valves & emergency lighting	X	X		
Sliding foot freedom of movement, accept grease, markings	X	X		
Test BID ac/dc power supply and operation, proper lamps, condition of lens, power cord integrity	X	X		
Bottom blow valve fasteners, orifice caps installed, leakage, valve operating device available and fits valve	X	X		

FUEL OIL SERVICE SYSTEMS	IA	LOA	Nr 1A FOSP	Nr 1B FOSP	Nr 2A FOSP	Nr 2B FOSP
Electric fuel oil pump local/remote shutdown switch	X	X				
Electric fuel oil pump discharge unloader operation	X	X				
Low fuel oil pressure pump trip/alarm	idle	X				
Check FSFOS SFI, ball valve leakage	X	X				

Legend: X - Demonstrate

O - Observe

 - Check is not required or does not apply.

AUTOMATIC BOILER CONTROLS	IA	LOA	Nr 1	Nr 2
Boiler at setpoint, bias on A/M stations	X			
Fuel oil characterizing relay cams		X		
Operation/tracking of all final control elements	idle	X		
Operation of master/element air locks, master reset	idle	X		
ACC air pressure alarms	X	X		
All control element fail positions correct	idle	X		
Minimum signal selector (up ramp, FO should not move)	idle	X		
ACC & FW control stability in automatic	X			

CONTROL LP AIR SYSTEMS	IA	LOA	Fwd LPAC	Aft LPAC
LPAC lead/lag settings per EOP	X	X		
LPAC operation within parameters	X	X		
LPAC low lube oil pressure shut-down	X	X		
LPAC low lube oil pressure time-delay	X	X		
LPAC high cylinder temp shut-down (can be checked by removing the stage cannon plug)	X	X		
HP/LP reducer operation	X	X		
Shift LPAC duplex strainer	X	X		
Low control air pressure alarm	X	X		
Priority valve operation	X	X		
LPAD operation within parameters	X	X		
LPAD not on bypass or cutout, alarms not cutout	X	X		

MAIN FEED PUMPS	IA	LOA	Nr 1A	Nr 1B	Nr 2A	Nr 2B
Low suction trip (normally 3 psi apart)	X	X				
Low suction trip, pump rollover	X					
Low lube alarm/trip, hand lube oil pump	X	X				
Inspect lube oil sump level, sample and inspect lube oil	X	X				
Rotate shaft by hand		X				
ELOP sequencing, ability of attached LO pump to assume load	X					
Centrifilter operation	X	X				
SLG freedom of movement	X	X				
SLG operation	X					
Overspeed trip operation	X					
Manual trip	X	X				
Constant pressure regulator	X					

EMERGENCY FEED PUMPS	IA	LOA	Nr 1	Nr 2
Emergency feed pump able to feed boiler	X	X		

MAIN FEED BOOSTER PUMPS	IA	LOA	Nr 1A	Nr 1B	Nr 2A	Nr 2B
MFBP low discharge pressure alarm		X				
MFBP operating within normal parameters	X					

SALINITY ALARM PANELS	IA	LOA	Fwd Plant	Aft Plant
Salinity panel meter calibration and alarm set point test	X	X		
Alarm panel circuit failure test	X	X		

Legend: X - Demonstrate

O - Observe

 - Check is not required or does not apply.

FORCED DRAFT BLOWERS	IA	LOA	Nr 1A	Nr 1B	Nr 2A	Nr 2B
Shutter freedom of movement, ability to be locked closed	X	X				
Inspect lube oil sump level sample and inspect lube oil	X	X				
Electric light-off blower operation/shutter operation	X	X				
Reverse rotation protection system	X	X				
Low lube oil pressure alarm/trip	X	X				
Shaft rotation by hand		X				
FDB minimum speed set point	X					
FDB SLG operation	X					

DEAERATING FEED TANKS	IA	LOA	Nr 1	Nr 2
High/low water alarms	X	X		
Remote water level indicator operation	X	X		
Operability of the MUF and dump valves (manual)		X		
Upper/lower shell temperatures/operation within parameters	X			
Aux exhaust system valve sequencing (dump valves & augments set points, DFT shell pressure)	X			
Gage glass protection devices and isolation valves	X	X		
Sample cooler preservation, operability, installation	X	X		

DISTILLING PLANTS	IA	LOA	Fwd Plant	Aft Plant
All pumps operating correctly	X	X		
Dump valve automatic function	X	X		
Operating in parameters (temp/press/salinity)	X			
Salinity cell/dump valve set points	X	X		
Ameroyal system operation	X	X		

FIRE ROOM REMOTE OPERATORS	IA	LOA	Fwd Plant	Aft Plant
Cycle boiler stops at local and remote stations	idle	X		
Cycle FO cut-outs at local and remote stations	idle	X		

AIR PILOT/DIAPHRAGM OPERATED VALVES	IA	LOA	Fwd Plant	Aft Plant
Manually stroke, check for binding		X		

FUEL OIL TRANSFER SYSTEMS	IA	LOA	Fwd Plant	Aft Plant
FOTP operation/demonstrate FO transfer	X	X		

BILGE & STRIPPING PUMPS	IA	LOA	Fwd Plant	Aft Plant
Align and perform token stripping of FO service tank	X	X		
Align and perform token pumping of bilge	X	X		

OIL LAB	IA	LOA	Fwd Plant	Aft Plant
Conduct thief sample on fuel oil service tanks on suction	X	X		
Conduct dissolved oxygen test on DFTs	X	X		
Conduct hydrazine test on DFTs	X	X		
Sample and test Boilers	X			

Legend: X - Demonstrate

O - Observe

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LHA
Amr/Fwd & Aft Compressor
Rooms/Edg Rooms/Pump Rooms/
AFFF Stations/DC Central
Representative Hot & Cold Checks/Tests

DAMAGE CONTROL	IA	LOA	Nr 1 EDG	Nr 2 EDG	AMR
Halon MRC Q-1R demonstration	X	X			
Halon MRC 18M-3R demonstration	X	X			
Halon bottle cali stickers, pressure, piping/nozzle integrity	X	X			
Halon actuation station integrity	X	X			
AFFF hosereel/nozzle operation	X	X			
AFFF hosereel activation stations	X	X			

HYDRAULIC REMOTE OPERATOR STATIONS	IA	LOA	Nr 1 1	Nr 2 2	Nr 3 3	Nr 4 4	Nr 5 5	Nr 6 6	Nr 7 7
Cycle remote operated valves	X	X							
Hydraulic oil level	X	X							
Indicator lights	X	X							


HYDRAULIC REMOTE OPERATOR STATIONS (cont)	IA	LOA	Nr 8 8	Nr 9 9	Nr 10 10	Nr 11 11	Nr 12 12	Nr 13 13	Nr 14 14
Cycle remote operated valves	X	X							
Hydraulic oil level	X	X							
Indicator lights	X	X							

AFFF STATIONS	IA	LOA	Nr 1 1	Nr 2 2	Nr 3 3	Nr 4 4	Nr 5 5	Nr 6 6
Refractometer test (MIP 5551)	X	X						
Valve alignment/labeling	X	X						
Concentrate level in tank	X	X						

EMERGENCY GENERATORS	IA	LOA	Nr 1	Nr 2
"Drop test", ability to assume load	X	X		
Manual trip	X	X		
Overspeed trip	X	X		
Reverse power relay	X	X		
Low lube oil alarm/trip	X	X		
Remote shutdown device	X	X		
JW high temp alarm	X	X		
JW Expansion tank low level alarm	X	X		
Salt water circ pump operation	X	X		
Emergency salt water reducing station	X	X		
Barring device interlock	X	X		
Pedestal Bearing high temp alarm	X	X		
Pre-lube pump operation	X	X		
Load test (at least 60% of rated load)	X	X		
SICLOS Lube Oil Strainer	X	X		
Obtain and test jacket water	X	X		
Obtain and test lube oil for dilution/acidity	X	X		
Day tank level	X	X		

Legend: X - Demonstrate

O - Observe

 - Check is not required or does not apply.

EMERGENCY SWITCHBOARDS	IA	LOA	Nr 1E SWBD	Nr 2E SWBD		
Ground check	X	X				
Rubber boots, face shield, shorting probe	X	X				
Indicator lights	X	X				
ABTs/MBTs	IA	LOA	Nr 1 EDG	Nr 2 EDG	AMR	DC Central
ABT operation in both automatic and manual modes	X	X				
Shift MBT, check manual interlock (both sources available)	X	X				
MAIN DRAINAGE SYSTEM	IA	LOA	Nr 1 EDG	AMR		
Eductor capable of drawing vacuum IAW EOSS	X	X				
Bilge suction strainers	X	X				
Cycle eductor local/remote operators	X	X				
Cycle main drains at local and remote stations (all)	X	X				
FUEL OIL TRANSFER SYSTEM	IA	LOA	Nr 1 EDG	Nr 2 EDG		
FOTP operation/demonstrate FO transfer	X	X				
ELECTRIC FIRE PUMPS	IA	LOA	Nr 1	Nr 2	Nr 7	Nr 8
Local & remote start/stop	X	X				
Direction of rotation	X	X				
Pump auto-start capability	X	X				
Suction/discharge valve local/remote operation	X	X				
Check-valve leakage (no backwards pump rotation)	X	X				
SHIP SERVICE LP AIR SYSTEMS	IA	LOA	Nr 1 LPAC	Nr 2 LPAC	Nr 3 LPAC	
LPAC lead/lag settings per EOP	X	X				
LPAC operation within parameters	X	X				
LPAC low lube oil shut-down	X	X				
LPAC low lube oil time-delay	X	X				
LPAC high cylinder temp shut-down (can be checked by removing the stage cannon plug)	X	X				
HP/LP reducer operation	X	X				
Shift LPAC duplex strainer	X	X				
LPAD operation within parameters	X	X				
LPAD not on bypass or cutout, alarms not cutout	X	X				
HP AIR SYSTEMS	IA	LOA	Nr 1 HPAC	Nr 2 HPAC		
HPAC auto-start load/unload pressure	X	X				
HPAC operation within parameters	X	X				
HPAC low lube oil shut down	X	X				
HPAC low lube oil time-delay	X	X				
HPAC high temp shut-down	X	X				
HPAC lube oil sample	X	X				
HPAD operation within parameters	X	X				
HPAD not on bypass or cutout, alarms not cutout	X	X				

Legend: X - Demonstrate

O - Observe

 - Check is not required or does not apply.

DAMAGE CONTROL CENTRAL	IA	LOA							
Fire pump remote start/stop	X	X	1	2	3	5	7	8	
Lamp test	X	X							
Firemain low pressure alarm	X	X							

O - Observe

 - Check is not required or does not apply.